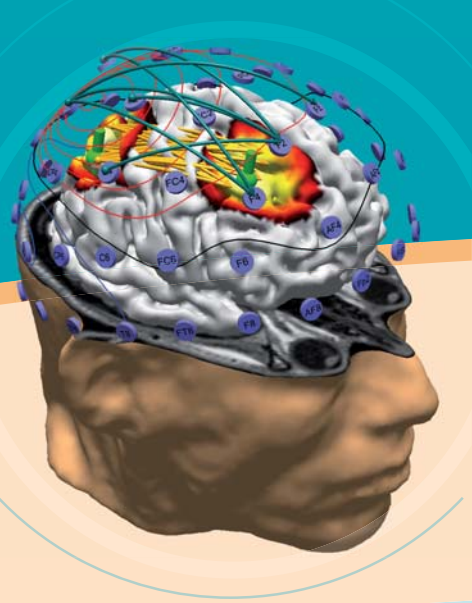


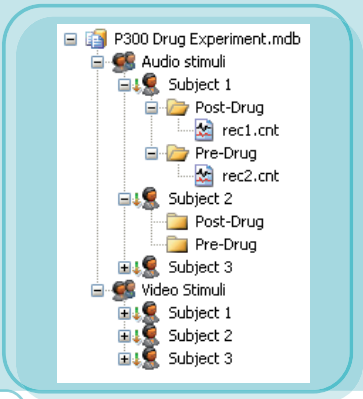
COMPUMEDICS Neuroscan™

®CURRY SCAN 7
NEUROIMAGING SUITE

®CURRYSCAN7 Neuroimaging Suite - Acquisition and Signal Processing Licenses.

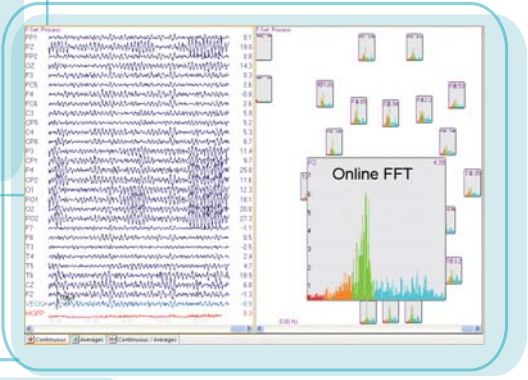
The **CURRY Neuroimaging Suite** software is divided into several modules that can stand alone or work together to maximize your lab's flexibility. The **Acquisition** and **Signal Processing** licenses consist of primary features and functions of the SCAN software and greatly expand on those features.

CURRY Neuroimaging Suite provides a new architecture that allows for greatly expanded functions and data handling. Ease of use has been carefully considered so that you can process data with unprecedented efficiency. The CURRY software uses a **database structure** that allows for optimized data management. Within the database, subjects can inherit the parent's parameters, allowing automated processing to be built in to the database. Additionally, CURRY **Macros** can be developed to handle virtually any processing task, complete with the ability to design interactive and tutorial programs.



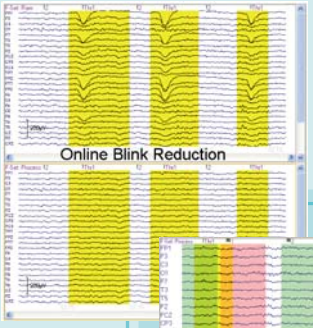
Acquisition is enhanced with easier, more flexible, and more advanced tools for on-line data processing, with up to 512 channels and sampling rates up to 20 kHz.

CURRY will support EEG data acquisition with Synamps2, Synamps RT, Synamps Wireless, NuAmps, Neuvo, Grael, Grael EEG, Siesta and E-Series amplifiers. Each amplifier has its own set-up image to ensure ease of use in setting up the system.



Split windows can be viewed for both continuous and averaged data. A full complement of data processing and viewing parameters can be applied to the windows independently to maximize your understanding of the data on-line.

Artifact Reduction for up to five types of artifact can be applied simultaneously, letting you verify the quality of the data while the subject is still connected. Artifacts include blinks, pulse artifact, MR gradient artifact, ballistocardiogram, and bad blocks. Reduction methods include Subtraction, Covariance, PCA, and ICA.

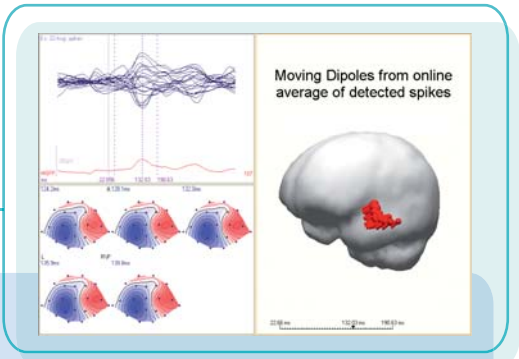


On-line averaging is enhanced, with the ability to extract both standard TTL triggered and conditional averages. Averages can be overlaid and compared directly on-line. Data processing can be applied and those optimized parameters can be saved for off-line application.

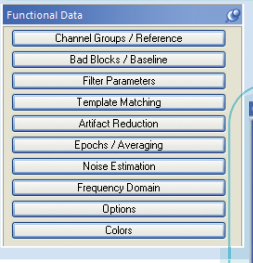
COMPUMEDICS Neuroscan™

When the Source Analysis license is purchased, averages can be sent directly to the module for on-line source reconstruction.

Impedance testing is available without interrupting data acquisition, and is provided in a simple visual display with values for each electrode.

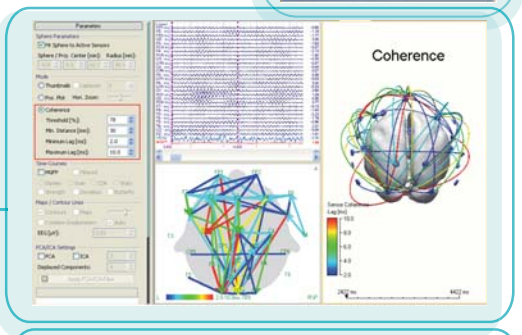


CURRY NeuroImaging Suite's architecture allows for all transformations to be applied **"in-place"** with no saving of intermediate files, and without changing the original data files. The effects are seen instantly in most cases. Parameters are stored and can be applied across files, to implement the same processing steps from one file to another at a click of a button. The **Signal Processing** license provides for data processing in the time and frequency domains.

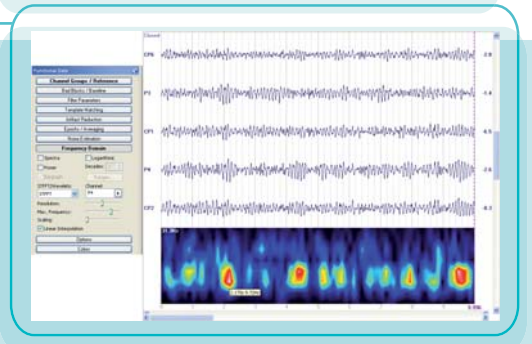


A **Workflow** feature provides a guided tool to navigate all of CURRY's features.

The **Signal Processing license** includes 2-D and 3-D mapping. The **2-D map** view can be customized to provide a single map or a cartoon over time in both the time and frequency domains. The **3-D mapping** allows for true 3-D visualization and manipulation of the electrodes, data and head model.



Frequency analysis includes STFFT and Wavelets.



A **Macro** recorder lets you capture all of the operations you apply to a file, and then apply them to selected files, thereby automating your analyses. A **Logbook** has been incorporated to track processing steps automatically, thus providing a historical record of analysis operations. A full featured and custom **Report Generator** is provided to capture snapshots of data, images and other program content in a remarkably simple way. Obtaining publication quality images is only a click away, with optional resolution, size and ratio features for the image output.

Finally, the **Acquisition** and **Signal Processing** licenses work hand in hand with the Basic and Advanced Source Analysis licenses within the CURRY framework. Upgrading to more advanced source analysis tools or integrating MRI data is no longer a huge leap away from basic processing. As all these licenses share the CURRY framework, upgrading is easy and effective when your research needs change.

www.neuroscan.com

COMPUMEDICS®
www.compumedics.com

Compumedics USA, Inc.:
6605 West WT Harris Blvd, Suite F
Charlotte, NC 28269
Toll Free: +1 877 717 3975
Ph: +1 704 749 3200
Fax: +1 704 749 3299

Compumedics Limited, Australia: Headquarters
30-40 Flockhart Street
Abbotsford VIC 3067, Australia
Ph: +61 3 8420 7300
Fax: +61 3 8420 7399
Free Call: 1800 651 751

Compumedics Germany GmbH:
Global HQ for Compumedics DWL
Josef-Schüttler-Strasse 2
D-78224 Singen, Germany
Ph: +49 7731 79 76 9-0
Fax: +49 7731 79 76 9-99

2 DECADES of ADVANCED BRAIN RESEARCH

AF530 Issue 1